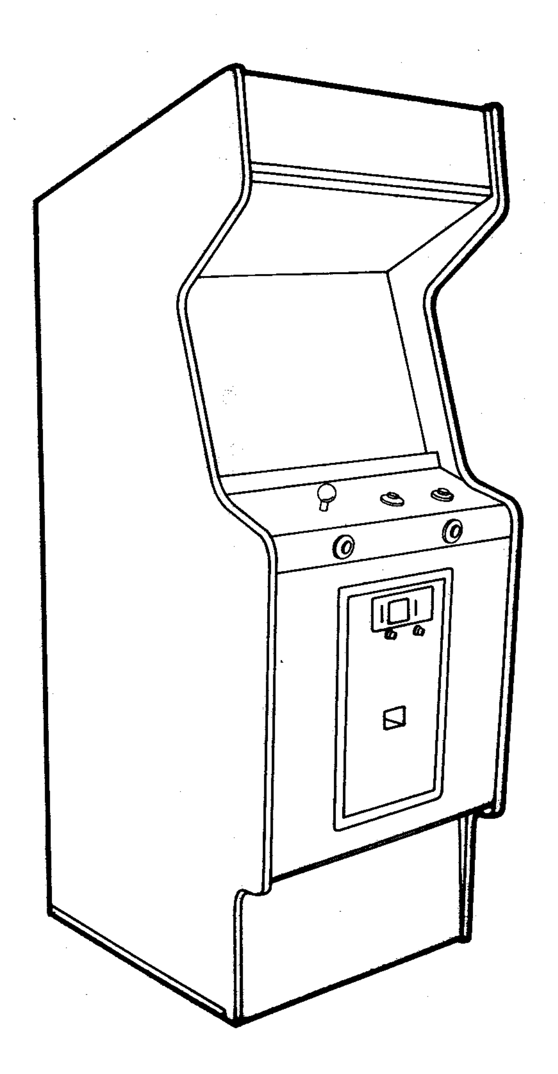
SEGA

α-SUB

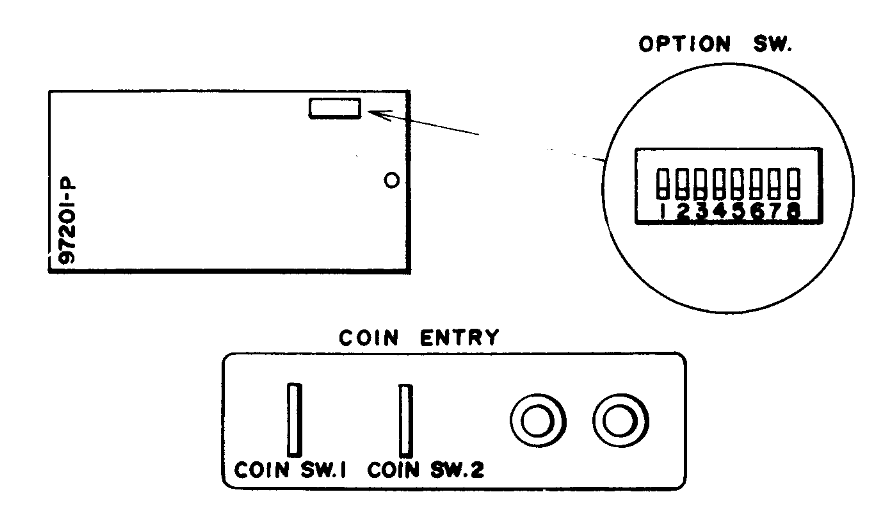
Service Manual & Parts Catalog



SEGA ENTERPRISES LTD.

SPC–0026

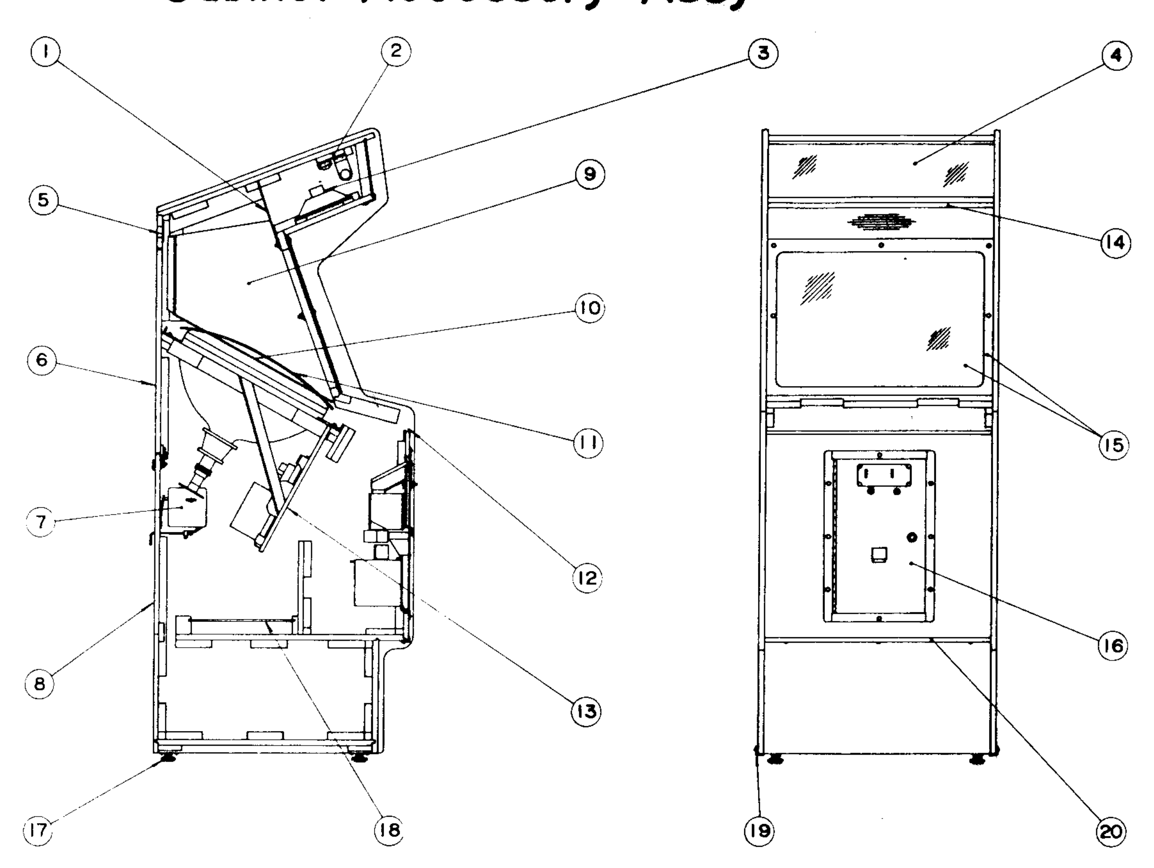
3. IC Board (97201-P) Adjustments
Coin Calculator



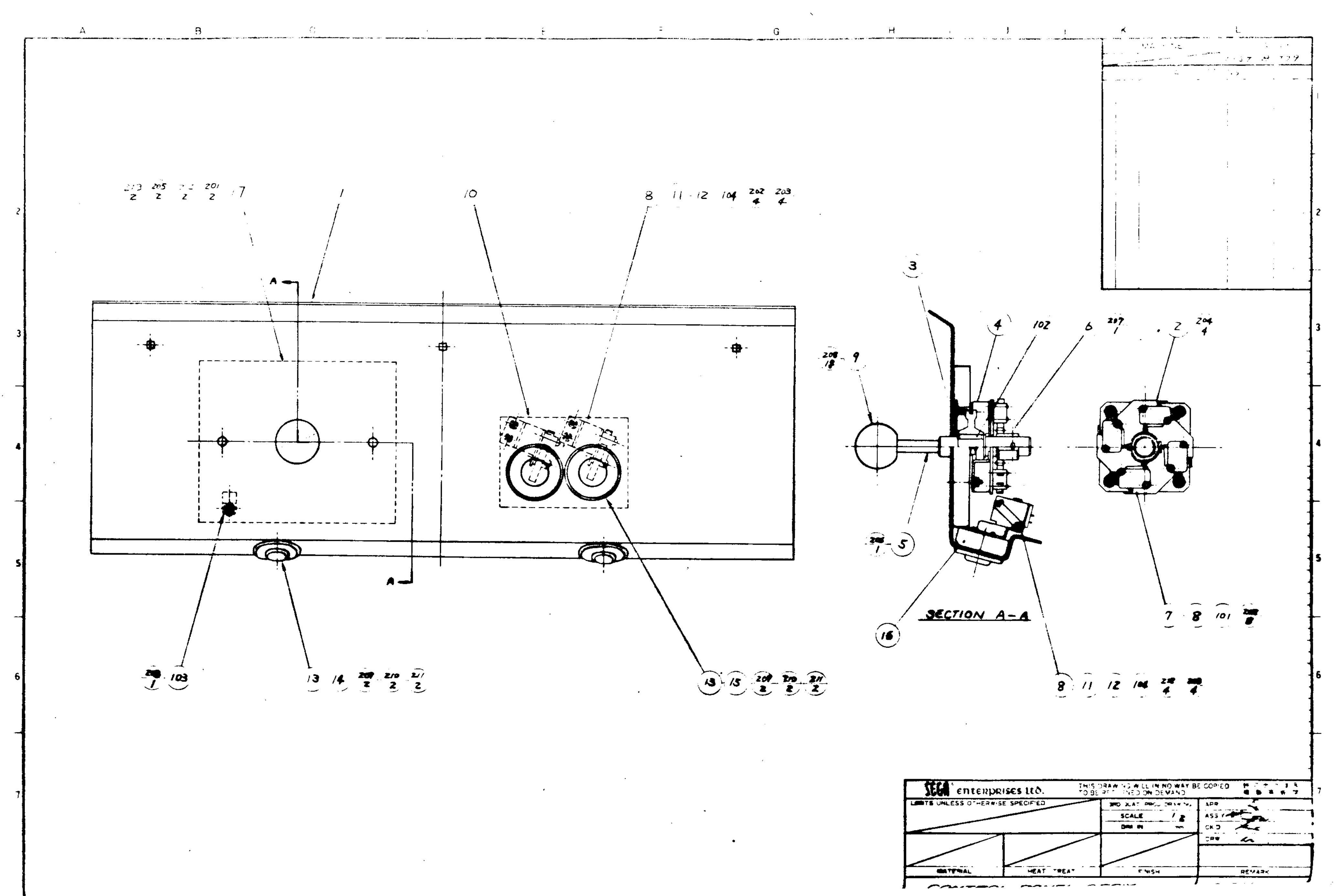
ON : O OFF : X

	OPTION	1	2	3	4	5	6	7	8
COIN SW. 1	1 Coin 1 Play	O	X	X					
	2 Coins 1 Play	X	O	X					
	3 Coins 1 Play	O	O	X					
	4 Coins 1 Play	X	X	O					
	5 Coins 1 Play	O	X	O					
	6 Coins 1 Play	X	O	O					
	7 Coins 1 Play	O	O	O					
COIN SW. 2	1 Coin 1 Play	O	X	X				O	NOT USED
	2 Coins 1 Play	X	O	X				O	
	3 Coins 1 Play	O	O	X				O	
	4 Coins 1 Play	X	X	O				O	
	5 Coins 1 Play	O	X	O				O	
	6 Coins 1 Play	X	O	O				O	
	7 Coins 1 Play	O	O	O				O	
COIN SW. 2	1 Coin 1 Play				O	X	X	X	
	1 Coin 2 Plays				X	O	X	X	
	1 Coin 3 Plays				O	O	X	X	
	1 Coin 4 Plays				X	X	O	X	
	1 Coin 5 Plays				O	X	O	X	
	1 Coin 6 Plays				X	O	O	X	
	1 Coin 7 Plays				O	O	O	X	

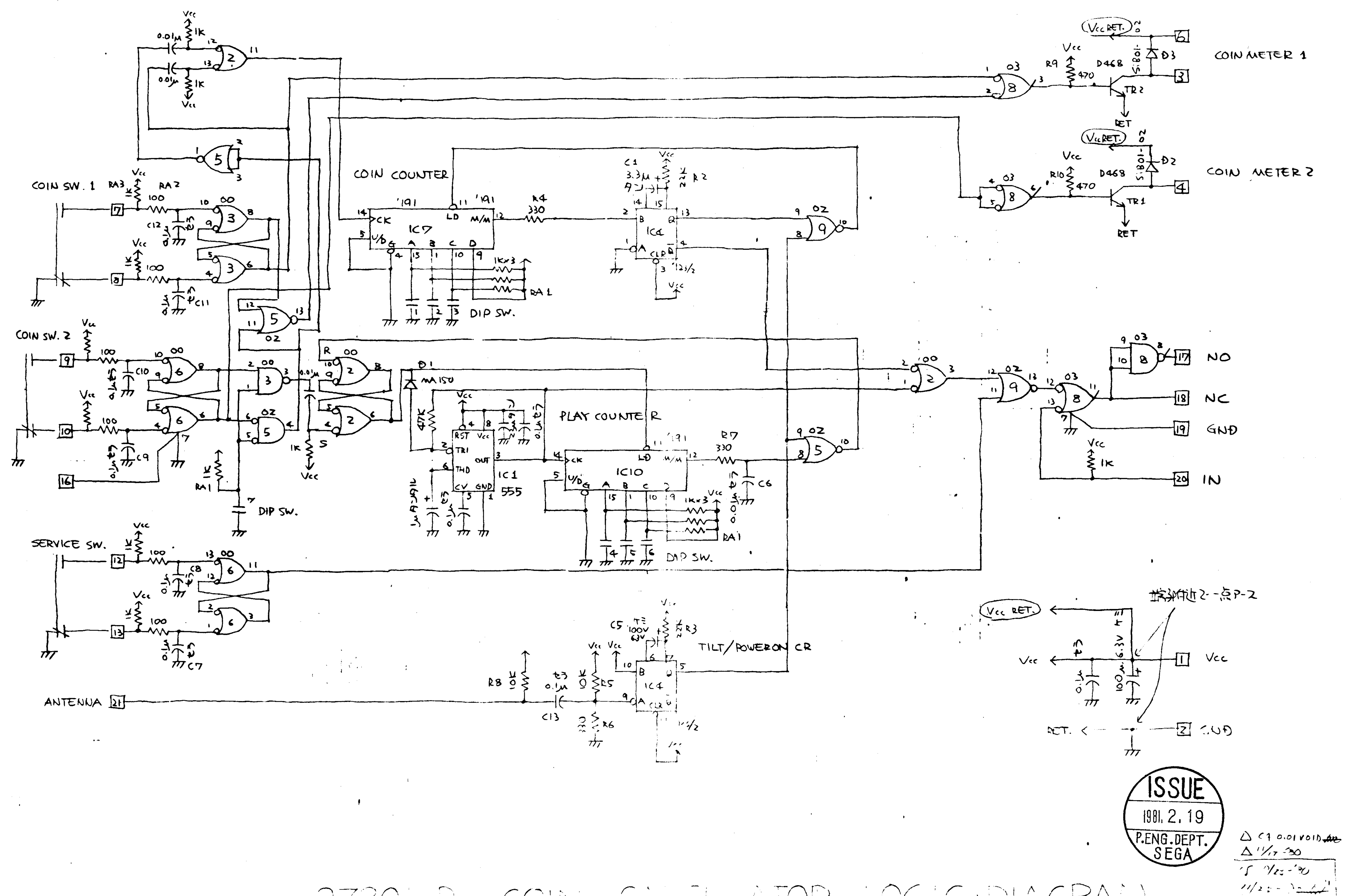
Cabinet Accessory Assy



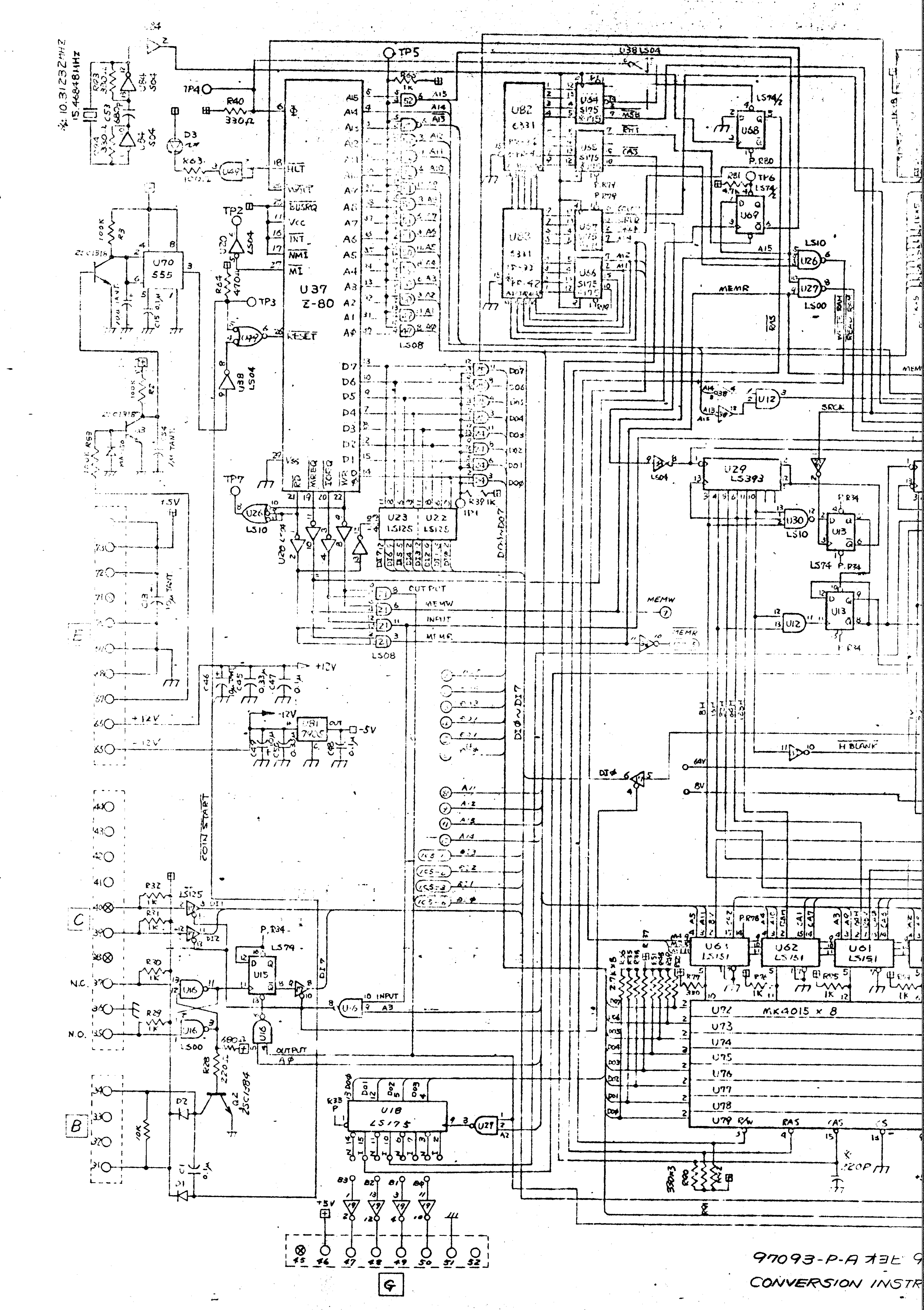
1	MR-1015	Light Baffle
2	NS-1039	FLUORESCENT LIGHT ASSY,15W
	S-90201	Fluorescent Light,15W
3	MR-1009	Speaker Guard Plate
	S-97336	Speaker,230 x 150mm,8Ω,6W
4	NS-1028	Top Panel
5	TA-1065X	Nut Plate
	PT-0015	Net
6	MR-1002	Back Door,Upper
7	MR-1019	JUNCTION BOX ASSY
	NS-1037	JUNCTION BOX ASSY,200~240V (See Page 14 for Detail)
8	NS-1038	Back Door,Lower
9	NS-1034	Scenery,Right
	NS-1035	Scenery,Left
10	NS-1033	Scenery,Rear
11	MR-1024	TV Mask
12	MR-1005	Trim,Upper
13	97232-P	COLOR DISPLAY ASSY,20TYPE,120V
	97397-P	COLOR DISPLAY ASSY,20TYPE,100V
14	MR-1007	Ornament Frame
15	MR-1013	Window Panel
	MR-1014	Bezel Frame
16	MR-1200	COIN CHUTE DOOR & CASH BOX ASSY (See Page 16 for Detail)
17	M-163-4(L)	Leg Adjuster
		Leg Adjuster Bracket
18	97399-P-16	IC BOARD ASSY, N-SUB
19	NS-1036	Corner Protector
20	MR-1006	Trim,Lower



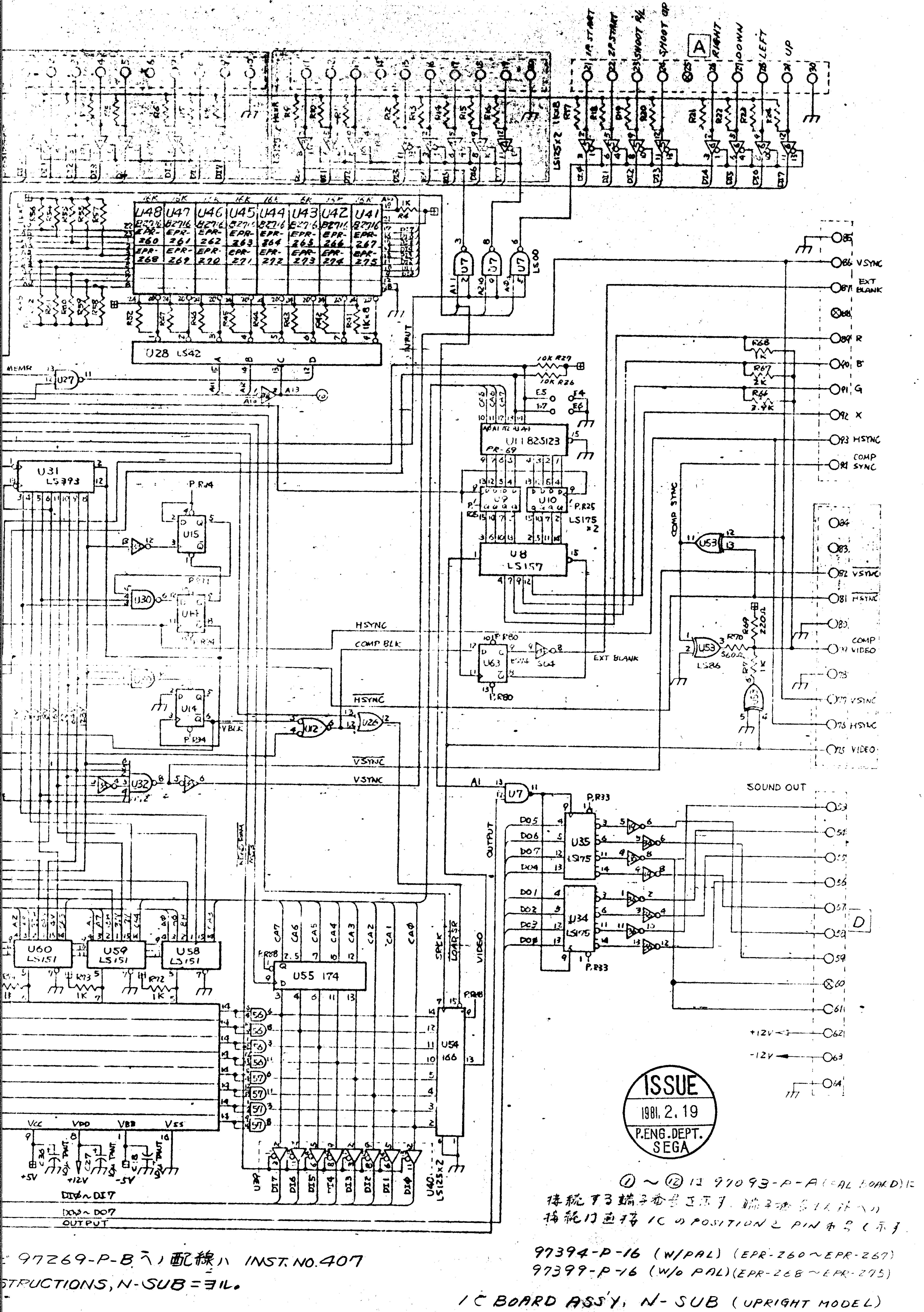
A
B
C
E
F
G
H
J
K
L
1
2
3
4
5
6
7
7
1
10
8
11
12
104
202
4
203
4
A
A
3
4
102
6
207
1
2
204
4
208
18
9
5
16
SECTION A-A
7
8
101
103
13
14
209
2
210
2
211
2
13
15
8
11
12
104
SEGA enterprises ltd.
THIS DRAWING WILL IN NO WAY BE COPIED
LIMITS UNLESS OTHERWISE SPECIFIED
SCALE
APR
ASSY
CKD
DRW
MATERIAL
HEAT TREAT
FINISH
REMARK



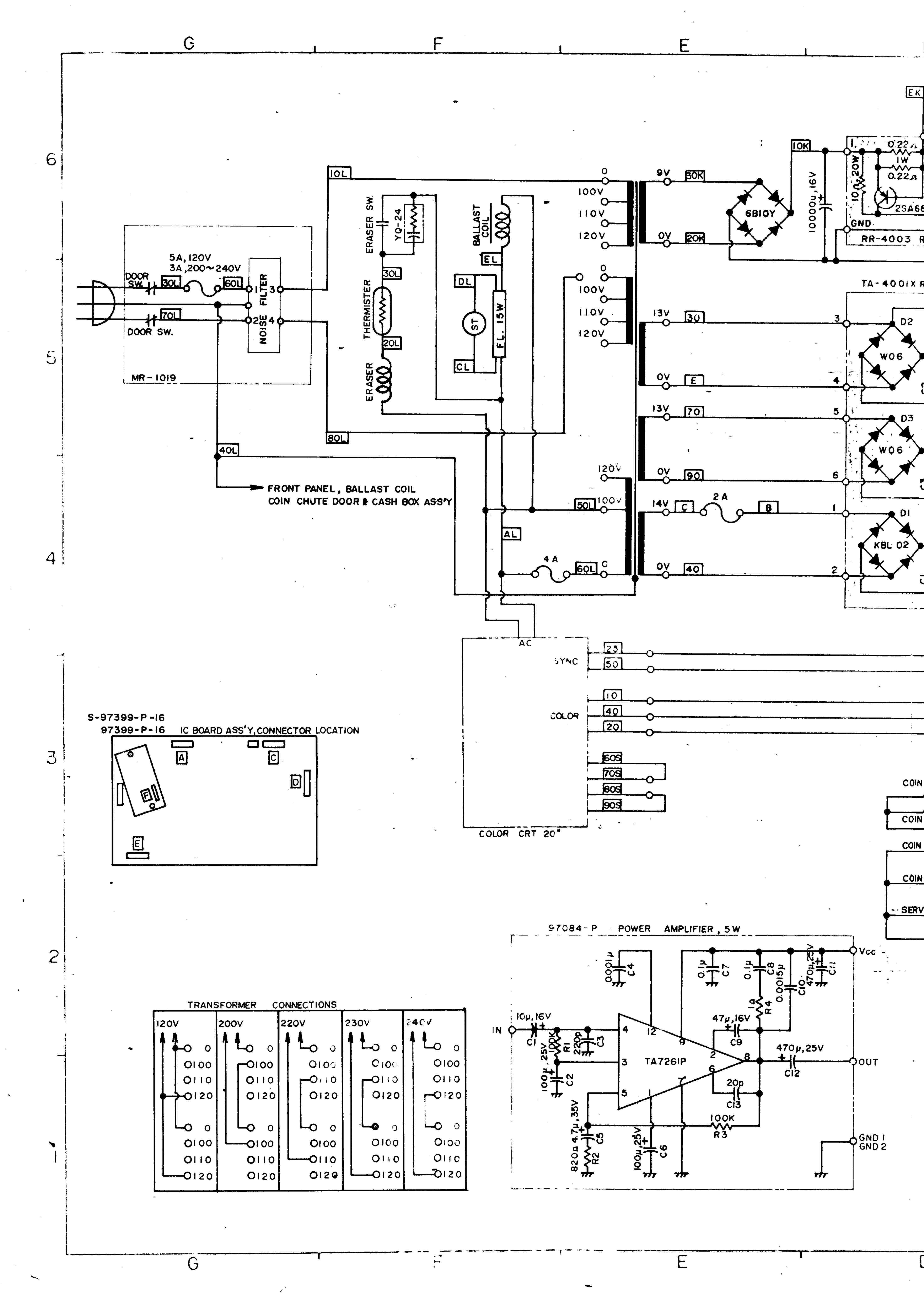
3720-P COIN CALCULATOR LOGIC DIAGRAM



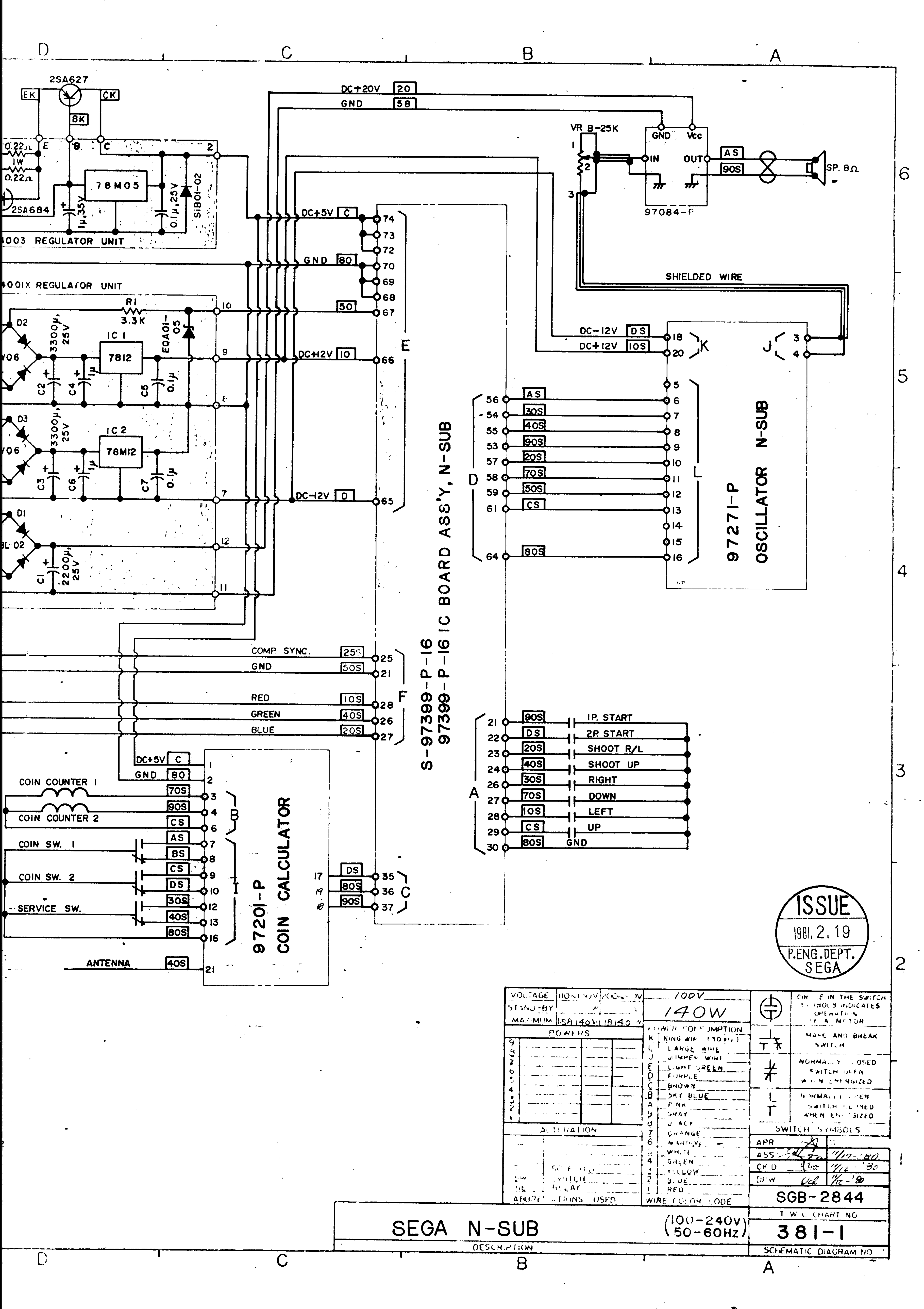
U37
Z-80
U70
555
U29
LS393
U18
LS175
U72 MK4015 × 8
97093-P-A オヨヒ
CONVERSION INSTR



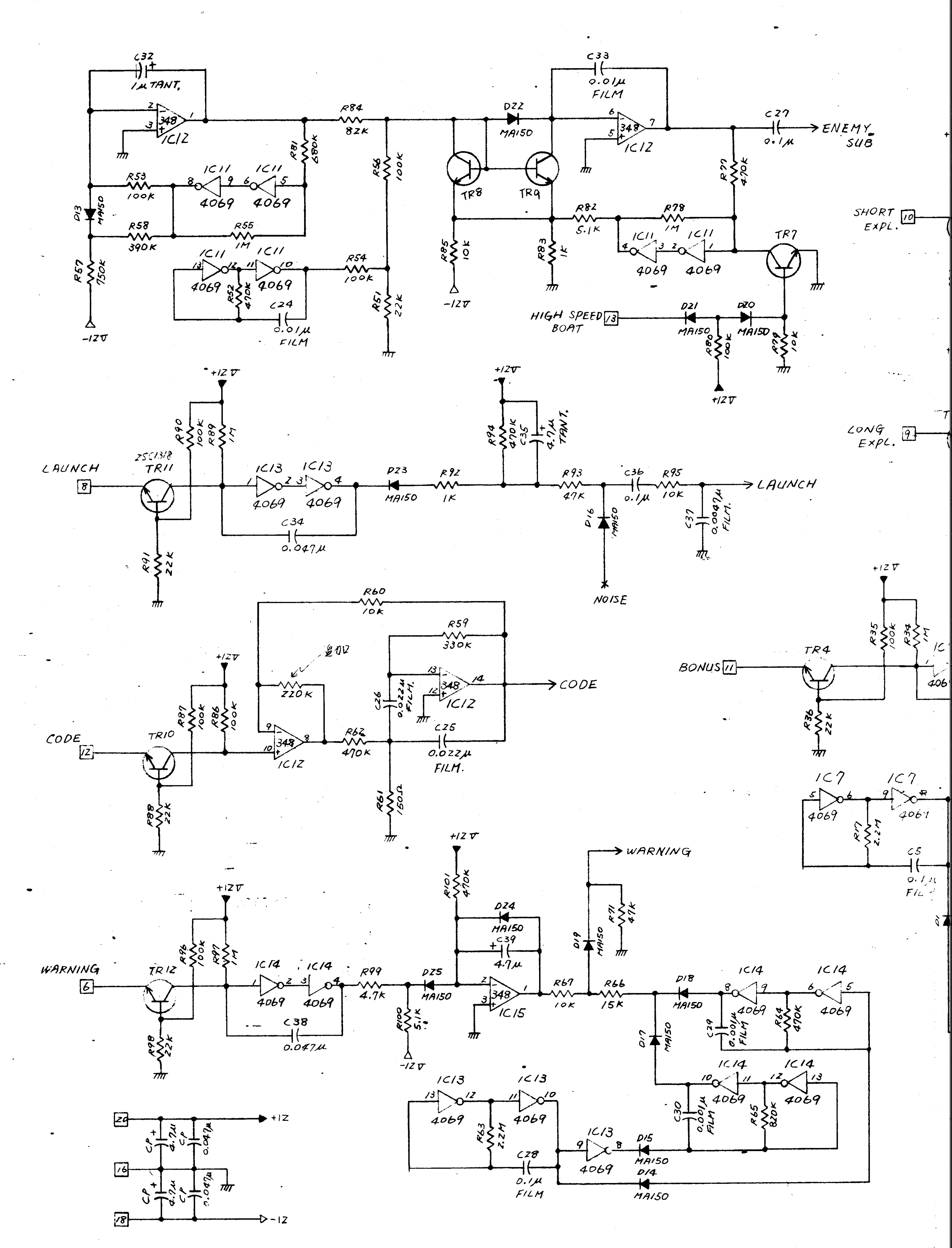
1P START
2P START
SHOOT R/L
SHOOT UP
A
RIGHT
DOWN
LEFT
UP
LS125×2
U48 U47 U46 U45 U44 U43 U42 U41
2716
EPR-260 EPR-261 EPR-262 EPR-263 EPR-264 EPR-265 EPR-266 EPR-267
EPR-268 EPR-269 EPR-270 EPR-271 EPR-272 EPR-273 EPR-274 EPR-275
U28 LS42
MEMR
U27
INPUT
U7
LS00
VSYNC
EXT BLANK
R
B
G
X
HSYNC
COMP SYNC
10K R27
10K R26
U11 82S123
PR-69
U9
U10
LS175 ×2
U8
LS157
U31
LS393
U15
U30
U14
VBLK
U12
U26
U32
HSYNC
COMP BLK
U63
LS74
LS04
EXT BLANK
U53
LS86
COMP SYNC
VSYNC
HSYNC
COMP VIDEO
VIDEO
SOUND OUT
OUTPUT
U35
LS175
U34
LS175
D
+12V
-12V
U60 LS151
U59 LS151
U58 LS151
U55 174
U54 166
SPCK
LOAD SR
VIDEO
CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0
VCC VDD VBB VSS
+5V
+12V
-5V
DI0~DI7
DO0~DO7
OUTPUT
U39
U40 LS125×2
ISSUE
1981. 2. 19
P.ENG.DEPT.
SEGA
97394-P-16 (W/PAL) (EPR-260~EPR-267)
97399-P-16 (W/o PAL) (EPR-268~EPR-275)
INST. NO. 407
IC BOARD ASSY, N-SUB (UPRIGHT MODEL)

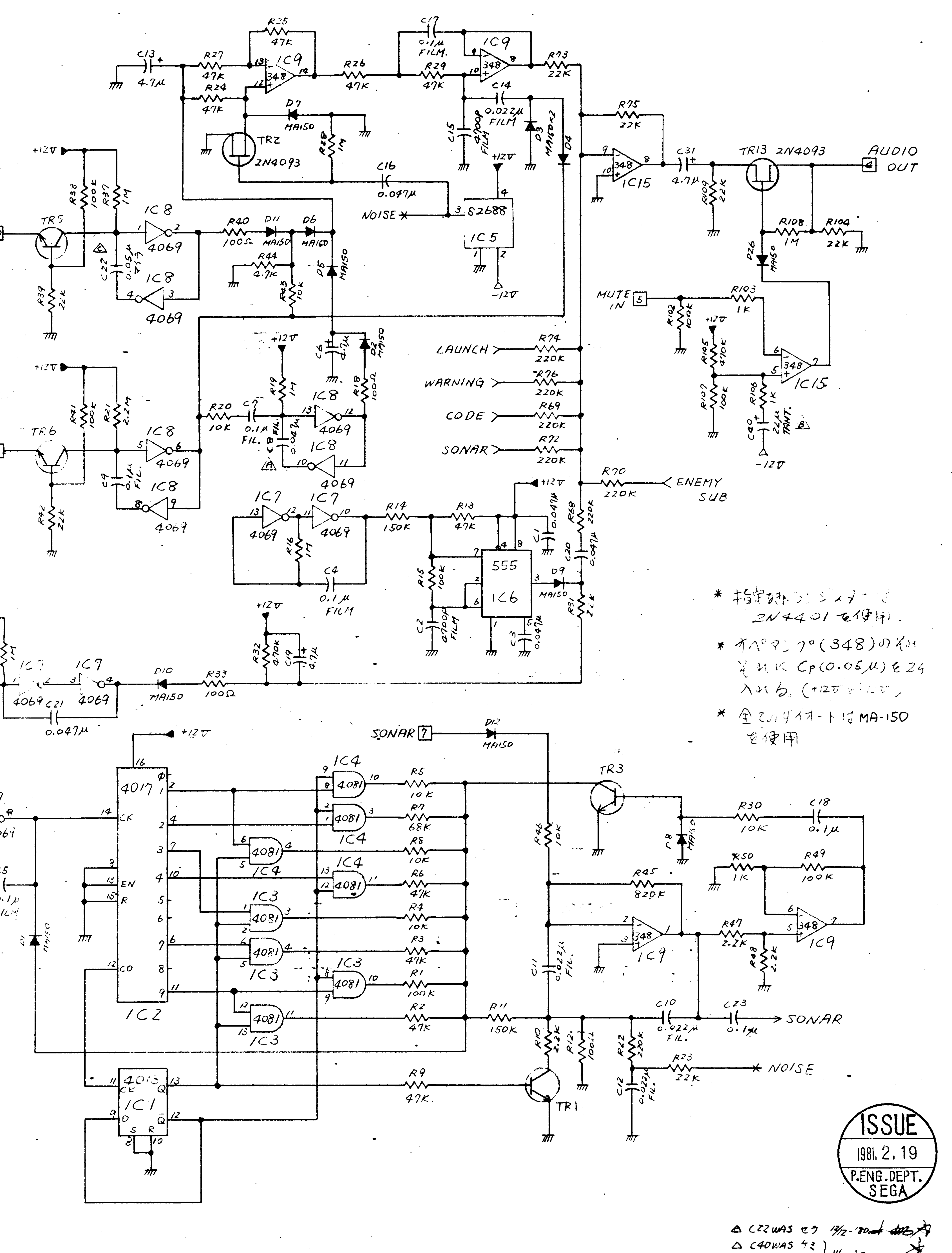


G
F
E
MR-1019
DOOR SW.
5A, 120V
3A, 200~240V
NOISE FILTER
ERASER SW.
YQ-24
THERMISTER
ERASER
BALLAST COIL
FL. 15W
ST
6B10Y
10000μ,16V
GND
RR-4003
2SA66
TA-4001X
W06
KBL 02
FRONT PANEL, BALLAST COIL
COIN CHUTE DOOR & CASH BOX ASS'Y
AC
SYNC
COLOR
COLOR CRT 20"
S-97399-P-16
97399-P-16 IC BOARD ASS'Y, CONNECTOR LOCATION
COIN
SERV
97084-P POWER AMPLIFIER, 5W
TA7261P
IN
OUT
Vcc
GND 1
GND 2
TRANSFORMER CONNECTIONS
120V
200V
220V
230V
240V



D
C
B
A
2SA627
EK
CK
BK
E
B
C
0.22Ω
1W
0.22Ω
2SA684
78M05
1μ,35V
0.1μ,25V
SIB01-02
4003 REGULATOR UNIT
4001X REGULATOR UNIT
R1
3.3K
D2
3300μ,
25V
IC1
7812
EQA01-05
C2
C4
C5
0.1μ
D3
3300μ,
25V
IC2
78M12
C3
C6
C7
0.1μ
D1
2200μ,
25V
C1
DC+20V
GND
DC+5V
DC+12V
DC-12V
S-97399-P-16
97399-P-16 IC BOARD ASS'Y, N-SUB
VR B-25K
GND
Vcc
IN
OUT
AS
90S
SP. 8Ω
97084-P
SHIELDED WIRE
DC-12V
DC+12V
DS
10S
97271-P
OSCILLATOR N-SUB
COMP. SYNC.
GND
RED
GREEN
BLUE
25S
50S
10S
40S
20S
1P. START
2P. START
SHOOT R/L
SHOOT UP
RIGHT
DOWN
LEFT
UP
GND
COIN COUNTER 1
COIN COUNTER 2
COIN SW. 1
COIN SW. 2
SERVICE SW.
ANTENNA
9720I-P
COIN CALCULATOR
ISSUE
1981. 2. 19
P.ENG.DEPT.
SEGA
VOLTAGE
STAND-BY
MAXIMUM
POWERS
100V
140W
POWER CONSUMPTION
ALTERATION
ABBREVIATIONS USED
WIRE COLOR CODE
SWITCH SYMBOLS
MAKE AND BREAK SWITCH
APR
ASS'Y
CK'D
DRW
SGB-2844
381-1
SEGA N-SUB
(100-240V
50-60Hz)
DESCRIPTION
SCHEMATIC DIAGRAM NO.


C32
1µ TANT.
348
IC12
R84
82K
R81
680K
R53
100K
IC11
4069
R58
390K
R55
1M
D13
MA150
R57
750K
-12V
R52
470K
C24
0.01µ
FILM
R54
100K
R56
100K
R51
22K
D22
MA150
TR8
TR9
R85
10K
-12V
C33
0.01µ
FILM
R82
5.1K
R83
1K
R78
1M
C27
0.1µ
ENEMY SUB
R77
470K
TR7
HIGH SPEED BOAT
D21
MA150
D20
MA150
R80
100K
R79
10K
+12V
SHORT EXPL.
LONG EXPL.
LAUNCH
2SC1318
TR11
R90
100K
R89
1M
R91
22K
IC13
4069
C34
0.047µ
D23
MA150
R92
1K
R94
470K
C35
4.7µ TANT.
R93
47K
D16
MA150
NOISE
C36
0.1µ
R95
10K
C37
0.0047µ FILM.
LAUNCH
R60
10K
R59
330K
220K
C26
0.022µ FILM.
C25
0.022µ
FILM.
R62
470K
R61
150Ω
CODE
TR10
R87
100K
R86
100K
R88
22K
CODE
BONUS
TR4
R35
100K
R34
1M
R36
22K
IC7
4069
R17
2.2M
C5
WARNING
TR12
R96
100K
R97
1M
R98
22K
IC14
4069
C38
0.047µ
R99
4.7K
D25
MA150
R100
5.1K
-12V
R101
470K
D24
MA150
C39
4.7µ
IC15
R67
10K
WARNING
D19
MA150
R71
47K
R66
15K
D18
MA150
C29
0.001µ FILM
R64
470K
D17
MA150
C30
0.001µ FILM
R65
820K
IC13
R63
2.2M
C28
0.1µ
FILM
D15
MA150
D14
MA150
+12
-12
CP
4.7µ
0.047µ
97271-P
OSCILL



△ C22 WAS セラ 12/12-'80

△ C40 WAS ケミ
△ C8 WAS セラ } 11/13-'80

10 14 1980

10/8-'80

10/14-80

LLATOR , N-SUB